

# 2-U28 Stic Wax Yellow

Section 1 Identification	
Product Identifiers	HMIS
Product name: 2-U28 Stic Wax Yellow	<b>H</b> 1
Relevant Identified Uses of the Substance or Mixture and Uses Advised Against	<b>F</b> 1
Identified uses: Utility wax	<b>R</b> 0
Uses advised against: None known	PPE
Details of the Supplier of the Safety Data Sheet	Sec. 8
Freeman Manufacturing and Supply Company	
1101 Moore Road, Avon, OH 44011	
Phone (440) 934-1902	
FAX (440) 934-7200	
Emergency Telephone Number	
24 Hour emergency telephone number: CHEMTREC (800) 424-9300	
Section 2 Hazards Identification	
Classification of the Substance or Mixture	
Not a hazardous substance or mixture under GHS/OSHA criteria.	
GHS Label Elements, Including Precautionary Statements None	
Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS None known	
None known	
Section 3 Composition/Information on Ingredients	
Proprietary mixture of waxes, resins, and polymers.	
No ingredients are hazardous according to OSHA criteria.	
No components need to be disclosed as per 29CFR Part 1910.1200.	
Section 4 First Aid Measures	
Description of first aid measures Inhalation	
Exposure to fumes, vapors, or smoke of overheated molten product handled in co	nfined areas
can result in irritation of the respiratory tracts, and possible discomfort to sensitive individuals.	
Move to fresh air. Treat symptomatically. Get medical attention if symptoms persi	
Skin Contact	
Wash with soap and water. Molten product – Cool affected areas with running wat	er to remove
heat. In general, do not remove adhering material - it may be necessary to cut thro	ugh material
surrounding a limb to prevent a tourniquet effect. Seek medical attention urgently	<b>.</b>
Eye Contact	
Exposure to fumes, vapors, or smoke of overheated product can result in irritation	
material that contacts the eye should be washed out immediately with water. If ea	
remove contact lenses. Get medical attention if symptoms persist. If molten mater	
the eye, immediately flush with plenty of running water for at least 15 minutes, ho	olding eyelid
open. Do not remove adhering material. Seek medical attention immediately.	
Ingestion	
Do not induce vomiting. Seek medical attention.	



# Section 4 First Aid Measures continued

## Most Important Symptoms/Effects

Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from skin is not necessary

#### **Indication of Immediate Medical Attention and Special Treatment**

Hazards: Contact with molten product may cause severe burns to skin and eyes. Treatment: Treat symptomatically.

# **Section 5 Fire-Fighting Measures**

### **Extinguishing Media**

Suitable extinguishing media: Water mist, foam, dry chemical, or carbon dioxide Unsuitable extinguishing media: Solid water stream may scatter and spread fire

## **Special Hazards**

Molten material can create slippery conditions. In case of fire hazardous decomposition products may be produced such as: Carbon dioxide, carbon monoxide, and complex hydrocarbons. As with most solid organic compounds, a high dust concentration of this product may form an explosive atmosphere, subject to ignition by heat and static discharge. This is an unlikely scenario but users should be aware of the risk.

# **Special Protective Equipment & Precautions for Fire-Fighters**

In the event of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and protective suit.

#### Section 6 Accidental Release Measures

## Personal Precautions, Protective Equipment, and Emergency Procedures

For personal protection see section 8.

## **Environmental Precautions**

Should not be released into the environment. Do not let product enter drains.

#### Methods and Materials for Containment and Cleanup

Solid Product: Sweep up the spilled material. If it is contaminated, collect in a suitable container for disposal.

Molten Product: Wear appropriate personal protective equipment – boots, eye protection, and heat resistant gloves. Attempt to contain the spill by making dams with sand or earth. A water mist can be used to cool a spill but take extreme care when doing so. Allow the spill to solidify before collecting the material for disposal. Do not let molten product enter drainage channels.

# Section 7 Handling and Storage

## Safe Handling

Use only in a well ventilated area and avoid breathing fumes and dust (dust is unlikely). Avoid skin and eye contact, especially with the molten material. Do not eat, drink, or smoke whilst using this product.

#### Safe Storage

Keep product closed in its original packaging until used. Keep dry; avoid temperature extremes (keep between 5 &  $30^{\circ}$ C /  $41 \& 86^{\circ}$ F) and direct sunlight. Keep away from sources of ignition, oxidizing agents and other chemicals.



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# Section 7 Handling and Storage continued

# Specific End Use(s)

Avoid heating above 100°C (212°F) during the normal investment casting process (except dewax operations). Do not let molten product stand unused in melt tanks and injection machines.

## Section 8 Exposure Controls/Personal Protection

#### **Components with Workplace Control Parameters**

None identified.

## **Appropriate Engineering Controls**

Good general ventilation should be used. If applicable, use local exhaust ventilation or other engineering controls to maintain airborne levels of dust (solid product), fume, or vapor (molten product) below recommended exposure limits.

#### **Eye/Face Protection**

Appropriate eye protection should be worn when handling slabs and pellets, when injecting the product and when assembling patterns. A full face shield is recommended for operations involving the transfer of molten product, i.e. refilling press reservoirs

## **Skin Protection**

When handling product at elevated temperatures, use heat-resistant gloves.

With product at ambient temperatures, use cotton gloves.

## **Respiratory Protection**

The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist pre-filter should be used.

#### **Other Protective Measures**

Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area. Avoid breathing dust, vapor, or mist. Avoid contamination of food, beverages, or smoking materials. Wash thoroughly after handling, and before eating, drinking, or smoking. Remove contaminated clothing promptly and clean thoroughly before reuse.

#### Section 9 Physical and Chemical Properties

Appearance	Waxy yellow solid
Odor	Mild
Odor Threshold	No data available
рН	No data available
Melting Point	Approximately 78.3°C (172.9°F)
Boiling Point	No data available
Flash Point (Cleveland Open Cup)	>185°C (365°F)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific Gravity	Approximately 0.932 (20°C)
Water Solubility	Insoluble
Solubility	Soluble in common organic solvents
Coefficient: n-Octanol/Water	No data available
Auto-Ignition Temperature	No data available



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# Section 9 Physical and Chemical Properties continued

Viscosity Explosive Properties Oxidizing Properties Approximately 1000 cP. (180°F) No data available No data available

#### Section 10 Stability and Reactivity

# Reactivity None known **Chemical Stability** Stable as supplied under recommended storage conditions **Possibility of Hazardous Reactions** None known **Conditions to Avoid** The product is organic, and will be subject to surface oxidation. Avoid holding the product in the molten state when not in use. Excessive thermal exposure will degrade the product. **Incompatible Materials** Strong oxidizing agents **Hazardous Decomposition Products** Thermal oxidative decomposition can produce carbon dioxide, carbon monoxide **Section 11 Toxicological Information Eye Contact** Molten product will cause thermal burns on contact with the eves. **Skin Contact** Molten product will cause thermal burns on contact with the skin. Inhalation Wax fumes have been reported to be irritating to the respiratory tract, especially to sensitized persons. Ingestion No data available. **Skin Corrosion/Irritation** No data available. **Serious Eye Damage/Irritation** No data available. **Respiratory Sensitization** No data available. **Skin Sensitization** No data available. **Germ Cell Mutagenicity** No data available. Carcinogenicity No data available. **Reproductive Toxicity** No data available. **Specific Target Organ Toxicity** Single Exposure: No data available. Repeated Exposure: No data available. Aspiration Hazard No data available.



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## Section 12 Ecological Information

## Toxicity

No data available. **Persistence and Degradability** No data available. **Bioaccumulative Potential** No data available. **Mobility in Soil** No data available. **Results of PBT & vPvB Assessment** No data available.

\*No specific ecological information has been determined for this product. However, the product is insoluble in water and should not pose a serious threat to the environment. Users should ensure that the product is stored, handled, and disposed of in such a manner that it is not released to the environment. Spent material from the flash fire furnace or autoclave must be stored in such a manner as to prevent environmental contamination, either by solid product or rain water run-off from it.

#### Section 13 Disposal Considerations

#### Disposal

Dispose of used product, unwanted product, and related packaging in strict accordance with waste disposal legislation and any local authority requirements.

## **Section 14 Transport Information**

## ADR/RID

Not regulated.

IMDG

Not regulated.

#### IATA

Not regulated.

## **Section 15 Regulatory Information**

## **US Federal Regulations**

EPCRA Section 302: This material contains no extremely hazardous substances.

SARA 311/312 Codes: No hazard categories identified

SARA 313: No components were identified

TSCA Inventory Status: All components of this product are listed or exempted from listing on the Toxic Substances Control Act (TSCA) inventory.

### California Proposition 65

This product does not contain substances known to the State of California to cause cancer. For more information, visit <u>www.P65Warnings.ca.gov</u>.



# Safety Data Sheet 2-U28 Stic Wax Yellow

# Section 16 Other Information

#### Disclaimer

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